

## ABSTRACT OF THE DISCLOSURE

A noise reduction method partitions frequency band into multiple sub-bands and estimates the signal-to-noise ratio (SNR) value for each sub-band. An over-subtraction factor of each sub-band is determined based on the estimated SNR value. Then, the clean speech spectrum estimate is determined by performing spectral over-subtraction on each sub-band, so as to determine the clean speech signal from the estimated clean speech spectrum.